



Cargille Laboratories

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Material Safety Data Sheet

Revision Summary

Issue Date : 8/19/2014
Supersedes : 6/5/2014

Section 1 : Product and Company Identification

Product Name : Cargille Refractive Index Liquid Series E $n_D = 1.575 - 1.640$
Cat. No. 18431, 18432, 1843X, 1843Y, 19461, 19462

Conditions of Intended Use : (ABBR. C.I.U.) As an Optical Refractive Index Liquid at normal room pressure (760 mm Hg/1013.25 hPa), temperature 65°F/18°C to 104°F/40°C in a non misted / non airborne state in a room having normal air changes, (2) / HR., in a trained and supervised laboratory / industrial setting using standard GL / GM procedures. See sections 7 and 8.

Manufacturer : Cargille Laboratories
55 Commerce Rd
Cedar Grove, NJ 07009
USA

Emergency Contact Numbers :
973-239-6633 - Cargille Laboratories (8:30 AM - 4:30 PM ET Weekdays)
800-424-9300 - 24 Hour Chemtrec

Abbreviations used in this MSDS

C.I.U. - Conditions of Intended Use
C.O.C. - Cleveland Open Cup
GL / GM - Good Laboratory / Good Manufacturing Procedures
N/A - Not Applicable
N.D.A. - No Data Available
N.E. - Not Established
TR.S. - Trade Secret

Section 2 : Hazardous Composition Identification

<u>Components</u>	<u>OSHA PEL</u> <u>Ceiling</u>	<u>ACGIH TLV</u> <u>T.W.A.</u>	<u>Other Limits</u> <u>Recommended</u>
1 - Bromonaphthalene	N.E.	N.E.	5 mg / cubic meter * *

* * PEL Ceiling & TLV T.W.A. If any should not occur if C.I.U. and sections 7 & 8 followed.



Section 3 : Hazards Identification

Emergency Overview :	This product is not expected to present any unusual hazards in proper use as per the C.I.U.
Potential Health Effects :	None known at C.I.U.
Chronic Effects :	None known at C.I.U.

Section 4 : First Aid Measures

Eyes :	Flush eyes with water for at least 15 minutes. Consult physician.
Skin Exposure :	Prompt soap and water wash, flush with large quantities of water.
Inhalation :	Remove to fresh air. Consult physician.
Ingestion :	Administer water or milk. Consult physician.
Special Notes :	N/A

Section 5 : Fire Fighting Measures

Flash Point:	275 °F (135 °C) C.O.C.
LEL / UEL :	N.D.A.
Extinguishing Media:	Treat as petroleum grease / oil fire. Use foam, dry chemical, carbon dioxide or any class B
Personal Protective Equip. :	None
Special Procedures :	None
Unusual Fire and Explosion Hazards:	None
Hazardous Decomposition :	N.D.A.

Section 6 : Accidental Release Measures

Evacuation Procedures & Safety :	None necessary due to the small quantities involved and the physical properties of the material involved.
Containment of Spill :	Absorb using lab wipes. Place in plastic (polyethylene or polypropylene) container, cap or twist tie the closure.
Cleanup and Disposal of Spill :	All chemical disposals must be in accordance with current Local, State, Provincial, National and International regulations.
Environmental & Regulatory Reporting :	Product is insoluble in water. Prevent from entering sewers or drains.



Section 7 : Handling and Storage

Min / Max Storage Temperature :	65 °F and 90 °F (18 °C and 32 °C)
Handling :	Avoid open flames and other similar source of ignition.
Storage :	Avoid continual direct light.

Section 8 : Exposure Controls / Personal Protection

Ingestion :	Administer water or milk. Consult physician.
Eye Contact :	Flush eyes with water for at least 15 minutes. Consult physician.
Skin Contact :	Prompt soap and water wash, flush with large quantities of water.
Respiratory Protection :	Remove to fresh air. Consult physician.
Exposure Guidelines :	

(* = Not mandatory except as good laboratory and industrial practices. Always use good work practices as to housekeeping, personal hygiene, use of chemical lab apron, splash goggles, avoidance of vapors, prolonged or repeated skin contact.)

<u>Components</u>	<u>OSHA PEL Ceiling</u>	<u>ACGIH TLV T.W.A.</u>	<u>Other Limits Recommended</u>
1 - Bromonaphthalene	N.E.	N.E.	5 mg / cubic meter * *

* * PEL Ceiling & TLV T.W.A. If any should not occur if C.I.U. and sections 7 & 8 followed.

Section 9 : Physical and Chemical Properties

Physical State :	Liquid
Color :	Colorless to Pale Yellow
Odor :	Sweet Balsamic Wood Odor.
Specific Gravity (Water = 1) Temp. 23 °C / 73 °F :	ca 1.1
Vapor Density (Air = 1) at (mm Hg & temp.) 760/1013.25 hPa 73°F/23° C:	= or > 1
Vapor Pressure in mm Hg (temp.) 73 °F/23°C :	ca .5
Boiling Point at 760 mm Hg/1013.25 hPa :	> 496 °F/ > 258 °C
Solubility in Water at (mm Hg & temp.) 760/1013.25 hPa 73°F/23°C :	Slightly Soluble
Evaporation rate at 760 mm Hg/1013.25 hPa & 73 °F/23 °C (mineral oil = 1):	ca 1
Melting Point :	N.D.A.



Section 10 : Stability and Reactivity

Chemical Stability :	Stable
Hazardous Polymerization :	Will not occur
Conditions to Avoid :	None
Chemical Incompatibility :	Strong Oxidizers
Hazardous Decomposition :	N.D.A.

Section 11 : Toxicological Information

Acute Data

Ingestion :	None Known at C.I.U.
Skin Exposure :	None Known at C.I.U.
Eye Contact:	None Known at C.I.U.
Inhalation :	None Known at C.I.U.

Chronic Data

Not likely at C.I.U.
No evidence of carcinogenic activity.
No evidence of mutagenic activity.

Section 12 : Ecological Information

Eco-Acute Toxicity :	N.D.A.
Environmental Fate :	N.D.A.

Section 13 : Disposal Considerations

Procedure :	All chemical disposals must be in accordance with current Local, State, Provincial, National and International regulations.
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Section 14 : Transportation Information

Proper Shipping Name :	N/A
Hazard Class :	N/A
UN Number :	This product is not regulated by DOT or IATA
Special Information :	N/A
Packing Group :	N/A

Section 15 : Regulatory Information

Workplace Classification WHMIS:		Product is not considered hazardous
US & Puerto Rico TSCA Status :	Yes	Toxic Substances Control Act Inventory
Canada DSL :	Yes	Domestic Substances List
Europe EINECS:	Yes	European Inventory of New and Existing Chemicals
Japan ENCS:	Yes	Japanese Inventory of Existing and New Chemical Substances



Section 16 : Other Information

NFPA Ratings :

Health	Flammability	Reactivity	Special Provisions
1	1	0	

HMIS Ratings:

Health	Flammability	Reactivity	PPI
1	1	0	

The information supplied is based on data available to us and is believed to be correct. However, no guarantee or warranty of any kind expressed or implied, is made with respect to this information presented and Cargille Laboratories assumes no responsibility for the results of the use of this product. This information is furnished upon the condition that the persons responsible for its use shall make their own determination of the suitability of the material for their particular purpose.